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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/828,228	04/09/2001		Leif Wilhelmsson	040071-276	5631
21839	7590	08/26/2004		EXAM	INER
BURNS DOANE SWECKER & MATHIS L L P				WARE, CICELY Q	
POST OFFIC				APTIBUT	DADED MUMDED
ALEXANDRIA, VA 22313-1404			ART UNIT	PAPER NUMBER	
				2634	

DATE MAILED: 08/26/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/828,228	WILHELMSSON, LEIF					
Office Action Summary	Examiner	Art Unit					
	Cicely Ware	2634					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on <u>09 Ap</u>	Responsive to communication(s) filed on <u>09 April 2001</u> .						
2a) ☐ This action is FINAL . 2b) ☐ This	This action is FINAL . 2b) ☐ This action is non-final.						
•							
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4) Claim(s) 1-37 is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5)⊠ Claim(s) <u>1-11,15-29 and 33-37</u> is/are allowed.							
6) Claim(s) is/are rejected.	Claim(s) is/are rejected.						
•	7) Claim(s) <u>12-14, 30-32</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>09 April 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date Notice of Information Disclosure Statement(s) (PTO-1449 or PTO/SR/08) Notice of Information Patent Application (PTO-152)							
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 1.	6) Other:	a.c., pp. oanon (1 10 102)					

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DETAILED ACTION

Claim Objections

- 1. Claims 12-14, 30-32 are objected to because of the following informalities:
 - a. Claim 12, line 1 examiner suggests deleting "/or" for clarification purposes.
 - b. Claim 13, line 1 examiner suggests deleting "/or" for clarification purposes.
 - c. Claim 14, line 1 examiner suggests deleting "/or" for clarification purposes.
 - d. Claim 30, line 1 examiner suggests deleting "/or" for clarification purposes.
 - e. Claim 31, line 1 examiner suggests deleting "/or" for clarification purposes.
 - f. Claim 32, line 1 examiner suggests deleting "/or" for clarification purposes.

Appropriate correction is required.

Allowable Subject Matter

- 1-11, 15-29 and 33-37 2. Claims 1-37 are allowed.
- 3. The following is a statement of reasons for the indication of allowable subject matter: The instant application discloses a method of iterative parameter estimation. Prior art references show similar methods but fail to teach "performing a first estimation of a first portion of a signal to obtain first parameters of the first portion of the signal, wherein the signal contains no known data symbols; demodulating the first portion of the signal using the first parameters to recover data symbols; checking the demodulated first portion of the signal to confirm correct demodulation of the first portion of the signal; performing a second

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estimation of the first portion of the signal using the recovered data symbols to obtain second parameters of the first portion of the signal; and demodulating a second portion of the signal using the second parameters when the first portion of the signal is correctly demodulated", as in claims 1, 18 and 36.

Conclusion

- 4. This application is in condition for allowance except for the following formal matters:
 - a. Claim objections

Prosecution on the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cicely Ware whose telephone number is 703-305-8326.

The examiner can normally be reached on Monday – Friday, 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 703-305-4714. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9314 for regular communications and 703-872-9314 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

Cicely Ware

cqw August 19, 2004

STEPHEN CHIN
SUPERVISORY PATENT EXAMINE
TECHNOLOGY CENTER 2800